SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Inze, Dirk
 Segers, Gerda
 De Veylder, Lieven
 Mironov, Vladimir
 - (ii) TITLE OF INVENTION: METHOD AND MEANS FOR MODULATING PLANT CELL CYCLE PROTEINS AND THEIR USE IN PLANT CELL GROWTH AND CONTROL
 - (iii) NUMBER OF SEQUENCES: 4
 - (iv) CORRESPONDENCE ADDRESS
 - (A) ADDRESSEE: Nixon Peabody LLP
 - (B) STREET: 990 Stewart Avenue
 - (C) CITY: Garden City
 - (D) STATE: New York, New York
 - (E) ZIP: 11530
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: EP PCT/EP98/01522
 - (B) FILING DATE: 13-MAR-1998
 - (A) APPLICATION NUMBER: EP 97.200.765.2
 - (B) FILING DATE: 14-MAR-1997
- (2) INFORMATION FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 454 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (iii) HYPOTHETICAL: NO
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Arabidopsis thaliana
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION:15..276

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
CCTCTGAGAG AGAA ATG GGT CAG ATC CAA TAC TCC GAG AAA TAC TTC GAT Met Gly Gln Ile Gln Tyr Ser Glu Lys Tyr Phe Asp 1 5 10	50
GAC ACT TTC GAA TAC AGG CAC GTC GTT CTT CCT CCT GAA GTC GCT AAA Asp Thr Phe Glu Tyr Arg His Val Val Leu Pro Pro Glu Val Ala Lys 20 25	98
CTT CTT CCA AAG AAT CGT CTT CTC TCC GAA AAC GAA TGG CGA GCG ATA Leu Leu Pro Lys Asn Arg Leu Leu Ser Glu Asn Glu Trp Arg Ala Ile 30 35 40	146
GGA GTG CAG CAA AGC CGC GGA TGG GTA CAT TAC GCG GTT CAT CGA CCT Gly Val Gln Gln Ser Arg Gly Trp Val His Tyr Ala Val His Arg Pro 45 50 55 60	194
GAG CCG CAC ATA ATG CTA TTC AGG AGG CCT CTT AAC TAT CAG CAG CAG Glu Pro His Ile Met Leu Phe Arg Arg Pro Leu Asn Tyr Gln Gln 65 70 75	242
CAG GAG AAT CAA GCT CAG AAC ATG CTT GTT AAG T GAATCATTAT Gln Glu Asn Gln Ala Gln Asn Met Leu Val Lys 80 85	286
CATCACCTGA GTAAGAATGT TATATGCAAC AATTCTATGA GTATTGGTTT ATGTTTCTTG	346
TAAACATGGT TTGAATCTTT GTGGTTATGG ATGAATATGT GAGAGTTGGT TTGTTGAACA	406
ACTTCTATGT AATGTTAGTC TTGGTTCTAA TGTCATCTTC TGCTTCTC	454
(2) INFORMATION FOR SEQ ID NO: 2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 696 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: (A) ORGANISM: Arabidopsis thaliana (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	
ATGGGTCAGA TCCAATACTC CGAGAAATAC TTCGATGACA CTTTCGAATA CAGGTAAAGC	60
TCTTCAATCT CGCTTCTTCT TCCTCCAATT TTCACTCTCA CTTCTCTAAT CGTAATCGAT	120
CGATACAGGC ACGTCGTTCT TCCTCCTGAA GTCGCTAAAC TTCTTCCAAA GAATCGTCTT	180
CTCTCCGAAG TAAGTTTTT TCCGCATTGT TCTCTGATTT CTGATTCTAA ATCCTTCGAT	240
TAGATCATCG AAGACTATGA AAATTTGTTG CTCTTAAGAA ATTAAGTTTG GGAAAAATCG	300

AAAAAGAGAT	CGTTTAGGTT	TAGGATTTGA	ATCTTTGCTC	TGAATCCAAA	TTGCAACTGT	360
TACGATTTTG	AATCTTTGCT	TTGGGATTTT	GTAAGGTTTA	GTGATAAAGA	GATTTTAGAC	420
ATTTGTGTTG	TGCAATCTCT	TCAATGTTGT	ATTGATTGGT	GGTGATGGTA	AAAATGTTTG	480
GAATTTCGAA	GAACGAATGG	CGAGCGATAG	GAGTGCAGCA	AAGCCGCGGA	TGGGTACATT	540
ACGCGGTTCA	TCGACCTGAG	CCGCACATAA	TGCTATTCAG	GAGGCCTCTT	AACTATCAGC	600
AGCAGCAGGA	GAATCAAGCT	CAGAACATGC	TTGTTAAGTG	AATCATTATC	ATCACCTGAG	660
TAAGAATGTT	ATATGCAACA	GATCTATGAG	TATTGG			696

- (2) INFORMATION FOR SEQ ID NO: 3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 87 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Arabidopsis thaliana
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION:1
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Met Gly Gln Ile Gln Tyr Ser Glu Lys Tyr Phe Asp Asp Thr Phe Glu 10 15

Tyr Arg His Val Val Leu Pro Pro Glu Val Ala Lys Leu Pro Lys 20 25 30

Asn Arg Leu Leu Ser Glu Asn Glu Trp Arg Ala Ile Gly Val Gln Gln 35 40 45

Ser Arg Gly Trp Val His Tyr Ala Val His Arg Pro Glu Pro His Ile 50 55 60

Met Leu Phe Arg Arg Pro Leu Asn Tyr Gln Gln Gln Gln Gln Asn Gln 65 70 75 80

Ala Gln Asn Met Leu Val Lys 85

- (2) INFORMATION FOR SEQ ID NO: 4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 72 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Arabidopsis thaliana
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION:1
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Met Gly Gln Ile Gln Tyr Ser Glu Lys Tyr Phe Asp Asp Thr Phe Glu $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Tyr Arg His Val Val Leu Pro Pro Glu Val Ala Lys Leu Pro Lys 20 25 30

Asn Arg Leu Leu Ser Glu Asn Glu Trp Arg Ala Ile Gly Val Gln Gln 35 40 45

Ser Arg Gly Trp Val His Tyr Ala Val His Arg Pro Glu Pro His Ile 50 55 60

Met Leu Phe Arg Arg Pro Leu Asn 65 70